

**CLAIMS**

1. An olefin wax,

(i) which is a copolymer (A1) obtained by  
5 copolymerizing ethylene and at least one diene or a  
copolymer (A2) obtained by copolymerizing ethylene, at  
least one olefin selected from  $\alpha$ -olefins of 3 to 12 carbon  
atoms and at least one diene,  
and wherein

10 (ii) the content of unsaturated groups per one  
molecule is in the range of 0.5 to 3.0 groups,

(iii) the density is in the range of 870 to 980 kg/m<sup>3</sup>,

(iv) the melting point is in the range of 70 to  
130 °C,

15 (v) the number-average molecular weight is in the  
range of 400 to 5,000, and

(vi) the ratio (Mw/Mn) of the weight-average  
molecular weight to the number-average molecular weight is  
not more than 4.0.

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2. An olefin wax,

(i) which is a copolymer (A3) obtained by  
copolymerizing ethylene and vinyl norbornene (5-  
vinylbicyclo[2.2.1]hept-2-ene) or a copolymer (A4)

obtained by copolymerizing ethylene, at least one olefin selected from  $\alpha$ -olefins of 3 to 12 carbon atoms and vinyl norbornene,  
and wherein

5       (ii) the content of unsaturated groups per one molecule is in the range of 0.5 to 2.0 groups,

          (iii) the density is in the range of 900 to 980 kg/m<sup>3</sup>,

          (iv) the melting point is in the range of 100 to 130 °C,

10       (v) the number-average molecular weight is in the range of 400 to 5,000, and

          (vi) the ratio (Mw/Mn) of the weight-average molecular weight to the number-average molecular weight is not more than 4.0.

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3. The olefin wax as claimed in claim 1 or 2, which is prepared by the use of a metallocene catalyst.

4. A silicone-modified olefin wax obtained by  
20 addition-reaction of a hydrogen silicone having one or more SiH bonds in one molecule to the olefin wax (A) of any one of claims 1 to 3 in the presence of a catalyst.

5. A silicone-modified room temperature-solidifying composition comprising the silicone-modified olefin wax (B) of claim 4 in an amount of 5 to 95% by mass and an oil agent (C) in an amount of 95 to 5% by mass.

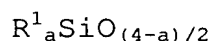
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6. A cosmetic comprising the silicone-modified olefin wax (B) of claim 4 and/or the silicon-based room temperature-solidifying composition (D) of claim 5.

10 7. The cosmetic as claimed in claim 6, wherein at least a part of the oil agent (C) is liquid at ordinary temperature.

8. The cosmetic as claimed in claim 6 or 7, wherein  
15 at least a part of the oil agent (C) is a solid oil agent having a melting point of not lower than 50°C.

9. The cosmetic as claimed in any one of claims 6 to 8, wherein at least a part of the oil agent (C) is a  
20 linear, branched or cyclic silicone oil represented by the following formula:



wherein  $R^1$  is a hydrogen atom, an alkyl group or a fluorine-substituted alkyl group of 1 to 30 carbon atoms,

an aryl group of 6 to 30 carbon atoms or an aralkyl group of 7 to 30 carbon atoms, and "a" is a number satisfying the condition of  $0 \leq a \leq 2.5$ .

5        10. The cosmetic as claimed in any one of claims 6 to 9, wherein at least a part of the oil agent (C) has a fluorine atom or an amino group.

10       11. The cosmetic as claimed in any one of claims 6 to 10, which further comprises water (E).

15       12. The cosmetic as claimed in any one of claims 6 to 11, which further comprises a compound (F) having an alcoholic hydroxyl group in the molecular structure.

15       13. The cosmetic as claimed in claim 12, wherein the compound (F) having an alcoholic hydroxyl group in the molecular structure is a water-soluble monohydric alcohol and/or a water-soluble polyhydric alcohol.

20       14. The cosmetic as claimed in any one of claims 6 to 13, which further comprises a water-soluble or water-swelling high-molecular substance (G).

15. The cosmetic as claimed in any one of claims 6 to 14, which further comprises a powder (H1) and/or a colorant (H2).

5        16. The cosmetic as claimed in claim 15, wherein at least a part of the powder (H1) and/or the colorant (H2) is a crosslinked spherical dimethylpolysiloxane fine powder having a structure in which dimethylpolysiloxane is crosslinked, a crosslinked spherical  
10 polymethylsilsesquioxane fine powder, hydrophobic silica or a fine powder obtained by coating a surface of a crosslinked spherical polysiloxane rubber with polymethylsilsesquioxane particles.

15        17. The cosmetic as claimed in claim 15 or 16, wherein at least a part of the powder (H1) and/or the colorant (H2) has a fluorine atom.

18. The cosmetic as claimed in any one of claims 6 to  
20 17, which further comprises a surface active agent (I).

19. The cosmetic as claimed in claim 18, wherein the surface active agent (I) is linear or branched silicone having a polyoxyalkylene chain in the molecule and/or

linear or branched silicone having a polyglycerin chain in the molecule.

20. The cosmetic as claimed in claim 18 or 19,  
5 wherein the surface active agent (I) has a hydrophilic-lipophilic balance (HLB) of 2 to 8.

21. The cosmetic as claimed in any one of claims 6 to 20, which further comprises a crosslinkable  
10 organopolysiloxane (J).

22. The cosmetic as claimed in claim 21, wherein the crosslinkable organopolysiloxane (J) is a crosslinkable organopolysiloxane which contains low-viscosity silicone  
15 having a viscosity of 0.65 to 10.0 mm<sup>2</sup>/sec (25°C) in an amount of not less than its own weight to swell.

23. The cosmetic as claimed in claim 21 or 22, wherein the crosslinkable organopolysiloxane (J) is  
20 capable of forming a crosslinked structure by the reaction of a hydrogen atom directly bonded to a silicon atom of the organopolysiloxane (J) with a crosslinking agent having two or more vinyl reaction sites in the molecule.

24. The cosmetic as claimed in any one of claims 21 to 23, wherein the crosslinkable organopolysiloxane (J) contains at least one site selected from the group consisting of polyoxyalkylene, polyglycerin, alkyl, alkenyl, aryl and fluoroalkyl in the crosslinkable molecule.

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25. The cosmetic as claimed in any one of claims 6 to 24, which further comprises a silicone resin (K).

26. The cosmetic as claimed in claim 25, wherein the silicone resin (K) is an acrylic silicone resin.

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27. The cosmetic as claimed in claim 26, wherein the silicone resin (K) is an acrylic silicone resin containing at least one site selected from the group consisting of pyrrolidone, long-chain alkyl, polyoxyalkylene, fluoroalkyl and anions of carboxylic acids or the like in the molecule.

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28. The cosmetic as claimed in claim 25, wherein the silicone resin (K) is a silicone network compound selected from a silicone network compound (MQ) consisting essentially of a monofunctional siloxy group and a

tetrafunctional siloxy group; a silicone network compound (MDQ) consisting essentially of a monofunctional siloxy group, a bifunctional siloxy group and a tetrafunctional siloxy group; a silicone network compound (MDT) consisting  
5 essentially of a monofunctional siloxy group and a trifunctional siloxy group; and a silicone network compound (MDTQ) consisting essentially of a monofunctional siloxy group, a bifunctional siloxy group, a trifunctional siloxy group and a tetrafunctional siloxy group.

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29. The cosmetic as claimed in claim 25 or 28, wherein the silicone resin (K) is a silicone network compound containing at least one site selected from the group consisting of pyrrolidone, long-chain alkyl,  
15 polyoxyalkylene, fluoroalkyl and an amino group in the molecule.

30. A skin care cosmetic comprising the cosmetic of any one of claims 6 to 29 as at least a part of  
20 constituents.

31. A make-up cosmetic comprising the cosmetic of any one of claims 6 to 29 as at least a part of constituents.



32. A hair cosmetic comprising the cosmetic of any one of claims 6 to 29 as at least a part of constituents.

33. An antiperspirant cosmetic comprising the  
5 cosmetic of any one of claims 6 to 29 as at least a part of constituents.

34. An ultraviolet protective cosmetic comprising the cosmetic of any one of claims 6 to 29 as at least a part  
10 of constituents.

35. The cosmetic as claimed in any one of claims 6 to 34, which is in liquid, emulsion, cream, solid, paste, gel, powder, pressed, multi-layer, mousse, spray, stick or  
15 pencil form.